OIPE
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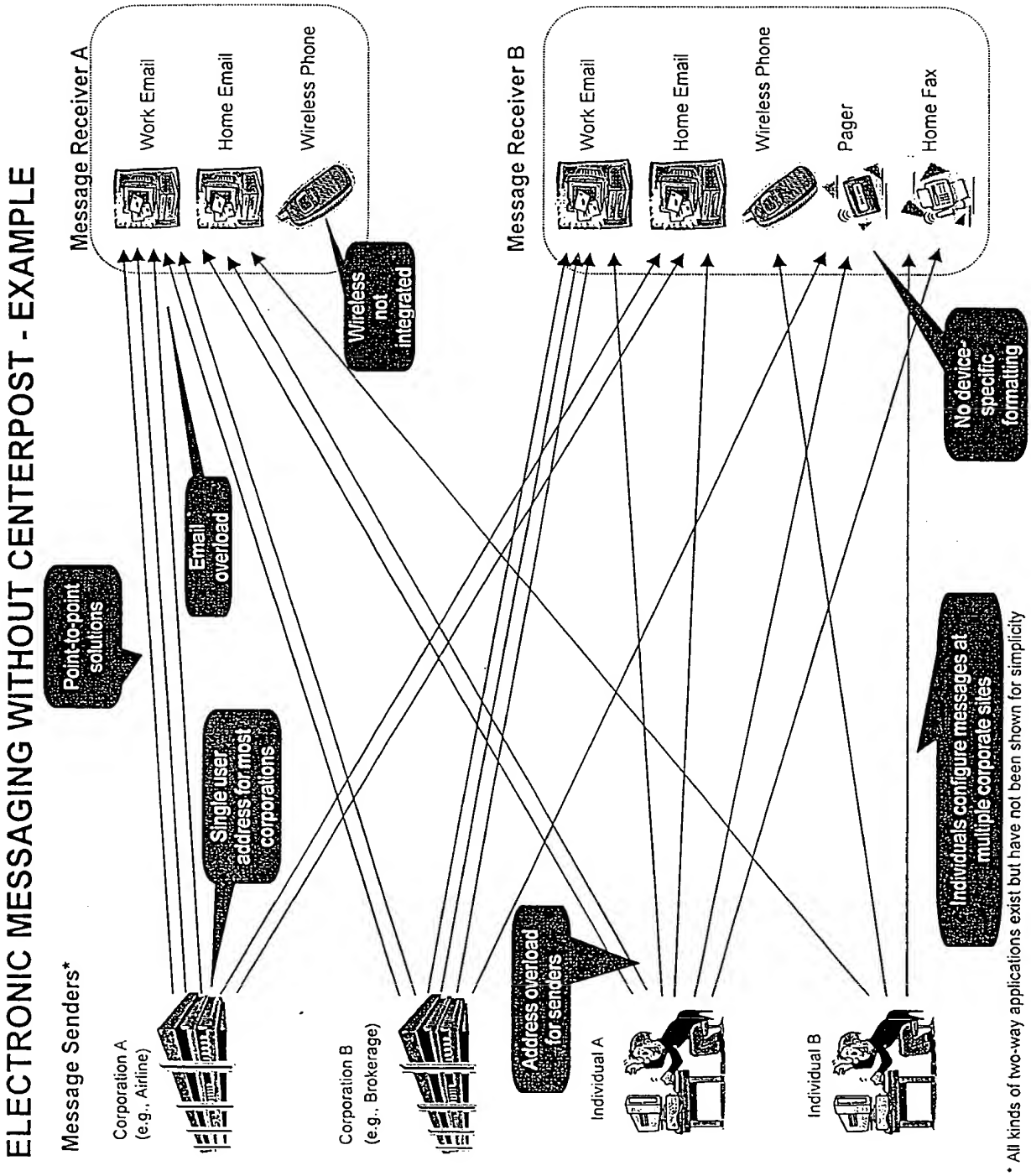
Fig. 1

*Endpoints are email boxes, digital cellular phones, pagers, instant messages, fax machines, telephones, PDAs, and other such devices

BEST AVAILABLE COPY

Fig. 2


ELECTRONIC MESSAGING WITHOUT CENTERPOST - EXAMPLE
Message Senders*
Corporation A (e.g., Airline)
Corporation B (e.g., Brokerage)
Individual A
Individual B
Point-to-point solutions
Email overload
Single user address for most corporations
Address overload for senders
Wireless not integrated
No device-specific formatting
Individuals configure messages at multiple corporate sites
Message Receiver A
Work Email
Home Email
Wireless Phone
Message Receiver B
Work Email
Home Email
Wireless Phone
Pager
Home Fax
* All kinds of two-way applications exist but have not been shown for simplicity

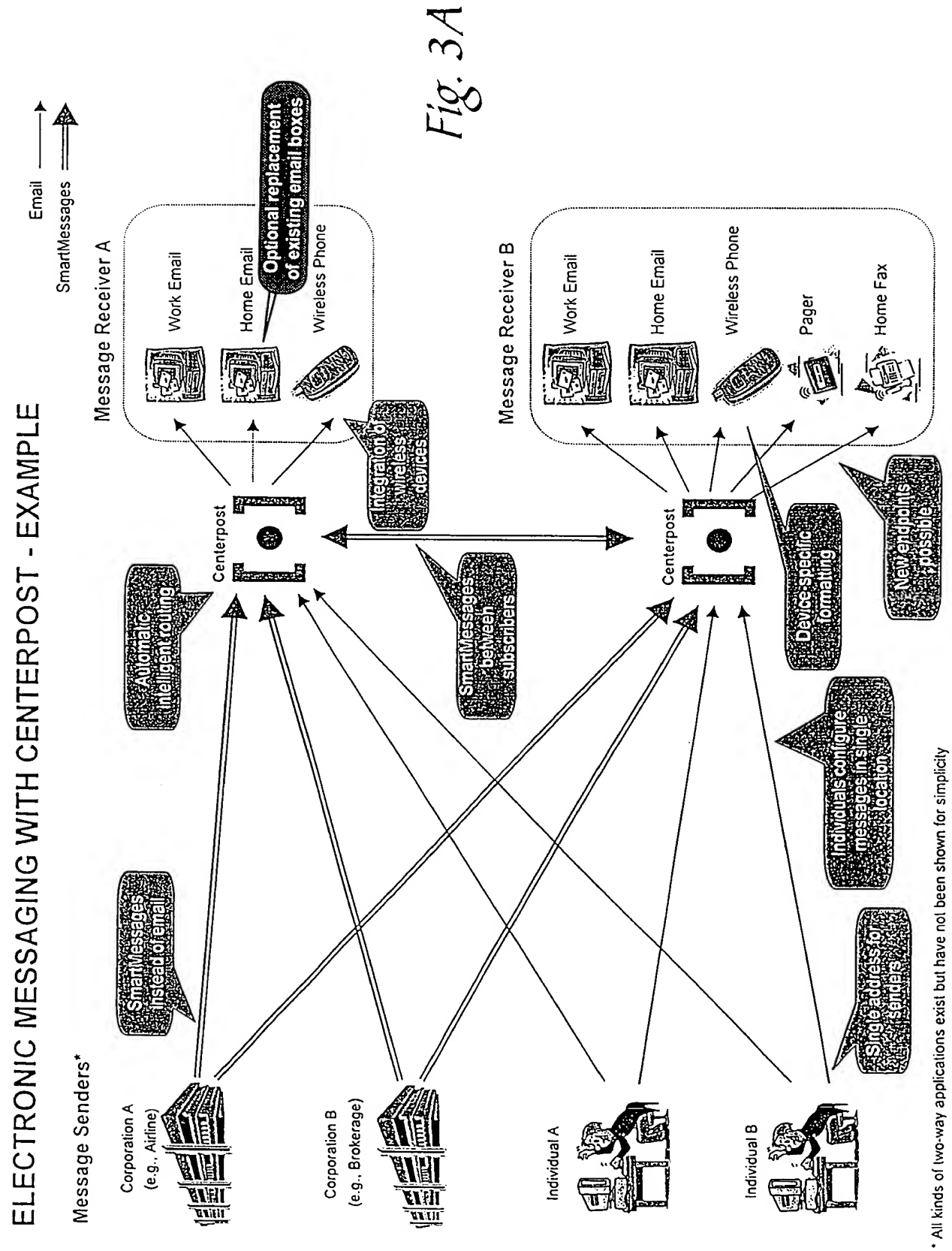
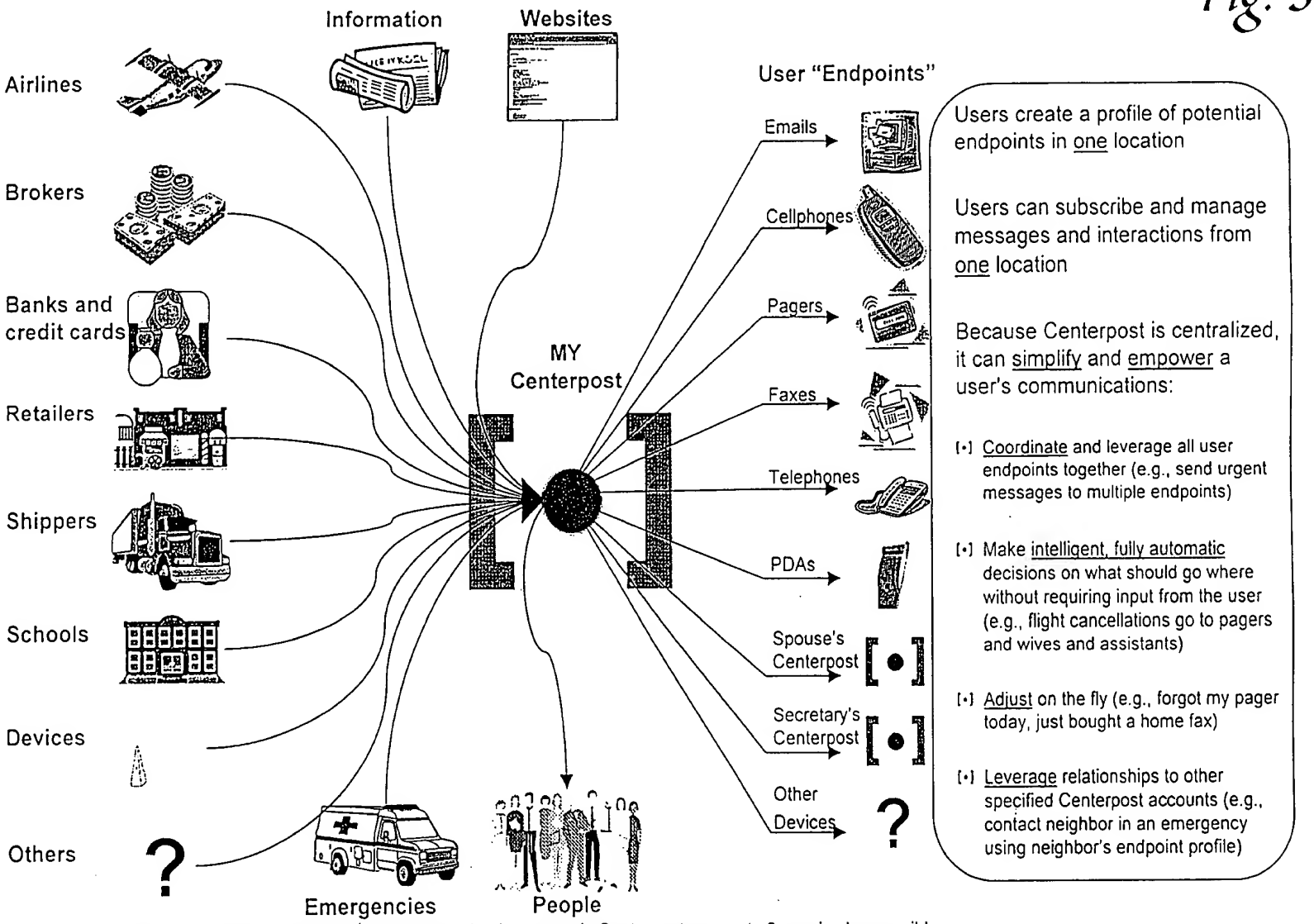

ELECTRONIC MESSAGING WITH CENTERPOST - EXAMPLE
Email
SmartMessages
Message Senders*
Corporation A (e.g., Airline)
Corporation B (e.g., Brokerage)
Individual A
Individual B
SmartMessages instead of email
Automatic intelligent routing
Centerpost
Message Receiver A
Work Email
Home Email
Wireless Phone
Optional replacement of existing email boxes
Integration of wireless devices
SmartMessages between subscribers
Centerpost
Message Receiver B
Work Email
Home Email
Wireless Phone
Pager
Home Fax
Device-specific formatting
New endpoints possible
Individuals configure messages in single location
Single address for senders
* All kinds of two-way applications exist but have not been shown for simplicity

Fig. 3A

THE POWER OF A CENTRALIZED, USER-CENTRIC HUB FOR CONSUMERS

Fig. 3B



Users create a profile of potential endpoints in one location

Users can subscribe and manage messages and interactions from one location

Because Centerpost is centralized, it can simplify and empower a user's communications:

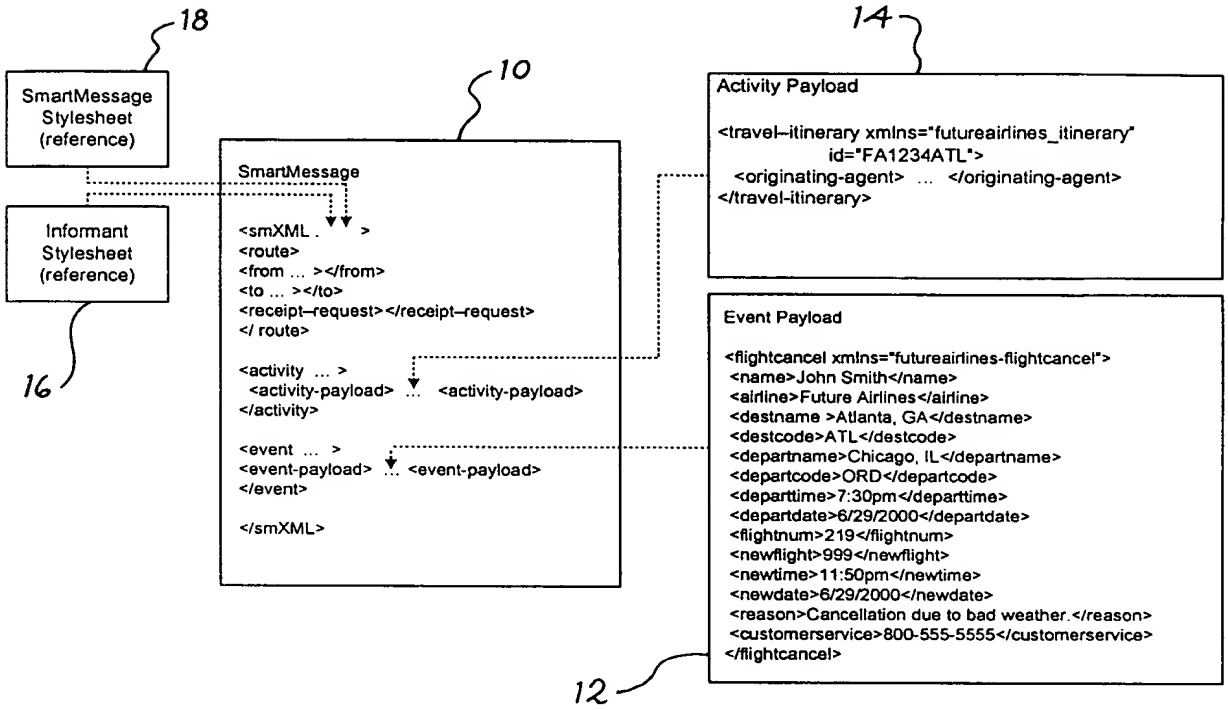
- Coordinate and leverage all user endpoints together (e.g., send urgent messages to multiple endpoints)
- Make intelligent, fully automatic decisions on what should go where without requiring input from the user (e.g., flight cancellations go to pagers and wives and assistants)
- Adjust on the fly (e.g., forgot my pager today, just bought a home fax)
- Leverage relationships to other specified Centerpost accounts (e.g., contact neighbor in an emergency using neighbor's endpoint profile)

Note: For simplicity, this diagram reflects one-way interaction into a user's Centerpost account. 2-way is also possible.

EXAMPLE CENTERPOST INTERACTIONS FOR AN INDIVIDUAL SUBSCRIBER

		CONTENT	EXAMPLE PROCESSING RULES (for 1 subscriber)	2-WAY POTENTIAL
Airlines		Booking confirmation	Send to assistant's email; update "folio" on Centerpost	
		Destination weather forecast	Send to home fax on evening prior to trip	
		Flight delay / cancellation	Send to pager and copy assistant's fax; to mobile phone on weekends	Rebook other flight
		Gate assignments	Send to pager; update PalmPilot schedule	
		Destination traffic alert	Send to pager; send to assistant's fax	
		Frequent flyer posting	Consolidate and send weekly summary to home email	
Brokers		Portfolio news	Send to home email; send urgent taglines to pager	Send details
		Closing prices	Send chart to work email; update "folio" on Centerpost; enable query	
		Stock alerts	Send to home email; send to PCS phone for extreme movements	Execute trade
		Trade alerts	Send to pager; request shares to buy/sell	Execute trade
		Trade expiration	Send to home email	Renew position
Banks and credit cards		Low balance	Send to home fax	Transfer funds
		Unusual activity	Send to pager; call home phone	Freeze account
		Account postings	Update "folio" on Centerpost;update Quicken register	
Retailers		Special promotions	Consolidate and send weekly summary on Fridays to home email	Purchase item
		Time sensitive promotions	Send to home email; delete when expired	Purchase item
		Ordered items arrived	Send to home fax	Hold at store
		Ordered items shipped	Send to home fax	
Shippers		Package signed for	Send to work email "shipments" folder; send to assistant's email	
		Package tracking	Update "folio" on Centerpost; enable query to folio	
Schools		Emergency contact	Send to all devices; also send to wife's Centerpost account	
		Test scores	Update "folio" on Centerpost	
		School events	Send to home email	
Technicians		Trouble alert	Follow escalation schedule; update central "folio"	Will respond
		Maintenance notification	Send to work email	
		Scheduling message	Send to pager	
Devices		Security system alert	Send to pager; ping wife's Centerpost; call neighbor phone	False alarm
		Power outage	Send to pager or cellphone	
		Equipment/network alarms	Follow escalation schedule; update central "folio"	Will respond
		GPS transmission	Update map on work PC	
People		Email	Route based on various criteria; send subject to pager if urgent	Reply to email
		Address update (from assistant)	Update address book on Palm VII, PCS phone, and home email	
		Schedule change (from assistant)	Update schedule on Palm VII; send to pager if urgent	

Fig. 3C


18
SmartMessage Stylesheet (reference)
Informant Stylesheet (reference)
16
10
SmartMessage
<smXML . >
<route>
<from ... ></from>
<to ... ></to>
<receipt–request></receipt–request>
</ route>
<activity ... >
<activity-payload> ... <activity-payload>
</activity>
<event ... >
<event-payload> ... <event-payload>
</event>
</smXML>
14
Activity Payload
<travel–itinerary xmlns="futureairlines_itinerary"
id="FA1234ATL">
<originating-agent> ... </originating-agent>
</travel-itinerary>
Event Payload
<flightcancel xmlns="futureairlines-flightcancel">
<name>John Smith</name>
<airline>Future Airlines</airline>
<destname >Atlanta, GA</destname>
<destcode>ATL</destcode>
<departname>Chicago, IL</departname>
<departcode>ORD</departcode>
<departtime>7:30pm</departtime>
<departdate>6/29/2000</departdate>
<flightnum>219</flightnum>
<newflight>999</newflight>
<newtime>11:50pm</newtime>
<newdate>6/29/2000</newdate>
<reason>Cancellation due to bad weather.</reason>
<customerservice>800-555-5555</customerservice>
</flightcancel>
12

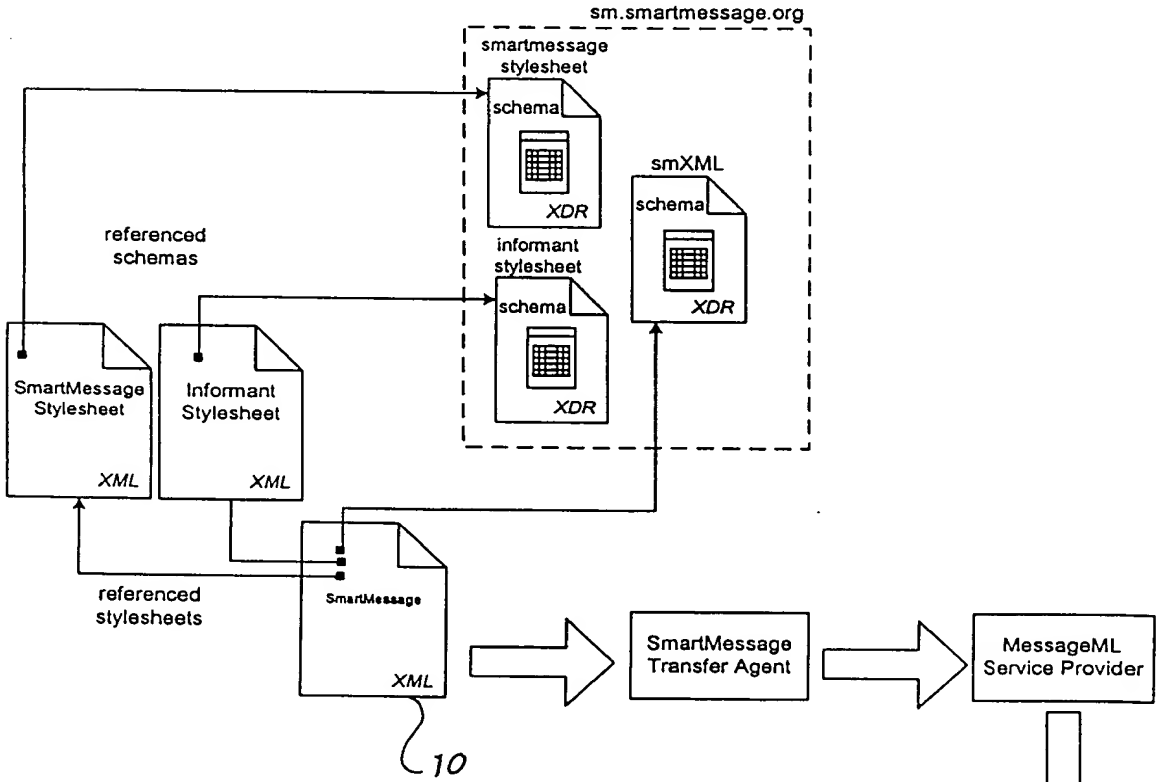

sm.smartmessage.org
smartmessage stylesheet
schema
XDR
smXML
schema
XDR
informant stylesheet
schema
XDR
referenced schemas
SmartMessage Stylesheet
XML
Informant Stylesheet
XML
referenced stylesheets
SmartMessage
XML
10
SmartMessage Transfer Agent
MessageML Service Provider
20
endpoint

Fig. 4

```
- <smXML xmlns="x-
    schema:http://www.devpost.com/schemas/SM/smXMLver1.1.xdr" protocol-
    version="1.1" smartmessage-id="309324dadfAA" smartmessage-date="2000-04-
    21T14:30:55" informant-stylesheet-class="http://www.centerpost.com/"
    informant-stylesheet-version="definitions/centerpostInformant11.xml"
    smartmessage-stylesheet-class="http://www.devpost.com/" smartmessage-
    stylesheet-version="definitions/centerpostDef2.xml">
  - <route>
      <from reply-protocol="smtp" reply-address="admin@centerpost.com" from-
        address="cgoren@centerpost.com" />
      <to to-type="to" to-protocol="smtp" to-
        address="jbrunning@centerpost.com" />
      <receipt-request receipt-type="nak" receipt-event="processed" receipt-
        protocol="smtp" receipt-address="receipts@centerpost.com" />
    </route>
  - <activity activity-class="Welcome" activity-id="User9999" activity-
      url="http://www.centerpost.com" activity-title="Welcome to Centerpost"
      activity-status="Your account is now active." closed-date="2000-04-
      22T14:30:55">
    - <activity-payload>
        <welcome xmlns="InformantsSchema" />
      </activity-payload>
    </activity>
  - <event event-class="Account Created" event-id="User9999" event-
      url="http://www.centerpost.com/userinfo.asp" event-description="Your new
      Centerpost account is now active for your use.">
    - <event-payload>
        <accountcreation xmlns="InformantsSchema" />
      </event-payload>
    </event>
</smXML>
```

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Fig. 5

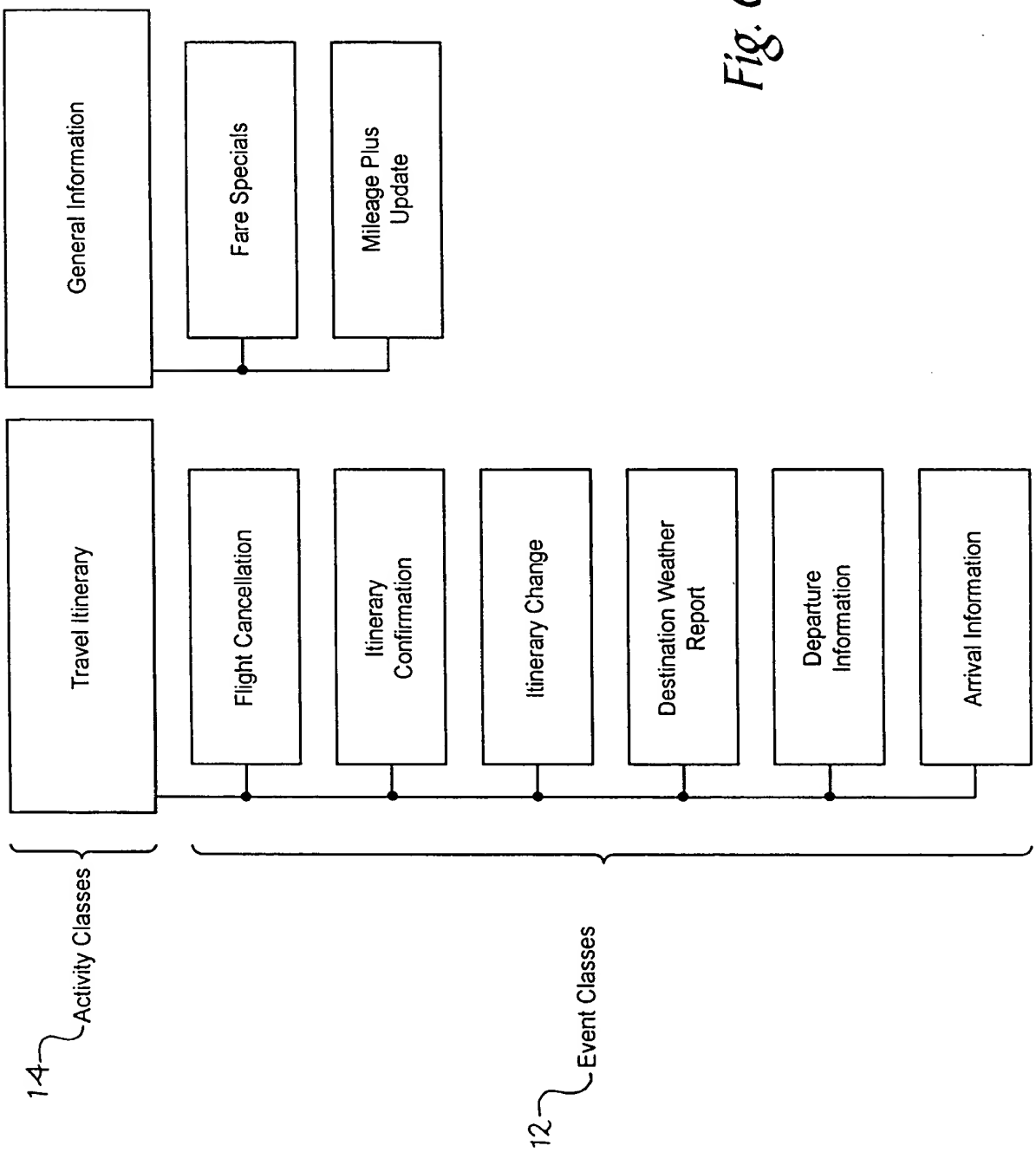
General Information
Fare Specials
Mileage Plus Update
Travel Itinerary
Flight Cancellation
Itinerary Confirmation
Itinerary Change
Destination Weather Report
Departure Information
Arrival Information
14
Activity Classes
12
Event Classes

Fig. 6

```
- <smInformantStylesheet xmlns="x-
    schema:http://www.devpost.com/schemas/Def/smInformantStylesheetSchema1.1.
    informant-name="Centerpost.com" informant-stylesheet-
    class="http://www.centerpost.com/" informant-stylesheet-
    version="definitions/InformantStylesheet1.1.xml" informant-
    description="Centerpost.com, your messaging center." logo-
    url="http://www.centerpost.com/images/centerpost.gif" home-
    url="http://www.centerpost.com" informant-category="personal">
    <valid-transport-source transport-source="*@centerpost.com" transport-
      protocol="smtp" />
    <valid-transport-source transport-source="*@demopost.com" transport-
      protocol="smtp" />
    <valid-transport-source transport-source="*@devpost.com" transport-
      protocol="smtp" />
    <valid-transport-source transport-protocol="http" transport-
      source="63.140.145.*" />
  </smInformantStylesheet>
```

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Fig. 7A

```
- <smSmartMessageStylesheet xmlns="x-
    schema:http://www.devpost.com/schemas/def/smstylesheetschema1.1.xdr"
    smartmessage-stylesheet-class="http://www.devpost.com/" smartmessage-
    stylesheet-version="definitions/centerpostdef2.xml">
  - <activity-class activity-name="Web Post" activity-duration="hours" event-
      frequency="once">
      <activity-payload-schema />
    - <activity-xsl-default>
        <xsl_default:stylesheet xmlns="http://www.w3.org/TR/REC-html40"
          xmlns:xsl_default="http://www.w3.org/TR/WD-xsl" />
      </activity-xsl-default>
    - <activity-xsl-endpoint endpoint-type="browser">
        <xsl_default:stylesheet xmlns="http://www.w3.org/TR/REC-html40"
          xmlns:xsl_default="http://www.w3.org/TR/WD-xsl" />
      </activity-xsl-endpoint>
    - <event-class event-name="Emergency Reach" content="fyi"
        sensitivity="private" reach="individual" immediacy="minutes"
        expiration="minutes" frequency="once" context="personal">
      - <event-payload-schema>
        - <Schema name="payloadschema.xdr" xmlns="urn:schemas-
            microsoft-com:xml-data" xmlns:dt="urn:schemas-microsoft-
            com:datatypes">
          - <ElementType name="Emergency" content="eltOnly" order="seq">
              <element type="from" />
              <element type="emergencySummary" />
              <element type="emergencyDetail" />
              <element type="ContactName" />
              <element type="ContactInfo" />
            </ElementType>
            <ElementType name="from" content="textOnly" />
            <ElementType name="emergencySummary" content="textOnly" />
            <ElementType name="emergencyDetail" content="textOnly" />
            <ElementType name="ContactName" content="textOnly" />
            <ElementType name="ContactInfo" content="textOnly" />
          </Schema>
        </event-payload-schema>
      - <event-xsl-default>
        - <xsl_default:stylesheet xmlns="http://www.w3.org/TR/REC-html40"
            xmlns:xsl_default="http://www.w3.org/TR/WD-xsl">
          - <xsl_default:template match="/">
              <xsl_default:apply-templates select="EmergencyReach" />
            </xsl_default:template>
          - <xsl_default:template match="EmergencyReach">
              This is an Emergency Reach Centerpost SmartMessage!
              From:
              <xsl_default:value-of select="from" />
              Contact:
              <xsl_default:value-of select="ContactName" />
              Contact Information:
              <xsl_default:value-of select="ContactInfo" />
              Emergency Summary:
              <xsl_default:value-of select="emergencySummary" />
```

Fig. 7B-1

```
        (More details may have be included in your folio) send a
        SmartMessage at: http://www.centerpost.com/Post/
      </xsl_default:template>
    </xsl_default:stylesheet>
  </event-xsl-default>
- <event-xsl-endpoint endpoint-type="html-email">
  - <xsl_default:stylesheet xmlns="http://www.w3.org/TR/REC-html40"
      xmlns:xsl_default="http://www.w3.org/TR/WD-xsl">
    - <xsl_default:template match="/">
        <xsl_default:apply-templates select="EmergencyReach" />
      </xsl_default:template>
    - <xsl_default:template match="EmergencyReach">
      - <HTML>
        - <HEAD>
            <TITLE />
          </HEAD>
        - <BODY>
          - <FONT face="arial,helvetica">
            - <table cellpadding="0" cellspacing="0" border="0">
              - <tr>
                - <td>
                    <img
                      src="http://www.centerpost.com/images/home/cplogo_big2.g
                  </td>
                </tr>
              </table>
              <BR />
              <BR />
              This is an emergency reach message from
            - <b>
                <xsl_default:value-of select="from" />
              </b>
              <BR />
              <BR />
              <BR />
            - <TABLE cellpadding="0" cellspacing="0" border="0">
              - <TR>
                  <TD>Message title:</TD>
                </TR>
              - <TR>
                - <TD>
                  - <FONT color="red">
                      <xsl_default:value-of
                        select="emergencySummary" />
                    </FONT>
                  </TD>
                </TR>
              - <TR>
                - <TD>
                    <BR />
                  </TD>
                </TR>
              - <TR>
```

Fig. 7B-2

```
            - <TD>
                Message Text:
                <BR />
              </TD>
            </TR>
          - <TR>
            - <TD>
              - <FONT color="red">
                  <xsl_default:value-of
                    select="emergencyDetail" />
                </FONT>
              </TD>
            </TR>
          - <TR>
            - <TD>
                <BR />
              </TD>
            </TR>
          - <TR>
            - <TD>
                Please contact
              - <FONT color="red">
                  <xsl_default:value-of
                    select="ContactPerson" />
                </FONT>
              </TD>
            </TR>
          - <TR>
            - <TD>
                at:
              - <FONT color="red">
                  <xsl_default:value-of
                    select="ContactInfo" />
                </FONT>
              </TD>
            </TR>
          </TABLE>
        </FONT>
      </BODY>
    </HTML>
  </xsl_default:template>
</xsl_default:stylesheet>
</event-xsl-endpoint>
- <event-xsl-endpoint endpoint-type="browser">
  - <xsl_default:stylesheet xmlns="http://www.w3.org/TR/REC-html40"
      xmlns:xsl_default="http://www.w3.org/TR/WD-xsl">
    - <xsl_default:template match="/">
        <xsl_default:apply-templates select="EmergencyReach" />
      </xsl_default:template>
    - <xsl_default:template match="EmergencyReach">
      - <HTML>
          <HEAD />
        - <BODY>
```

Fig. 7B-3

```
- <FONT face="arial,helvetica">
  - <table cellpadding="0" cellspacing="0" border="0">
    - <tr>
      - <td>
          <img
            src="http://www.centerpost.com/images/home/cplogo_big2.g
        </td>
      </tr>
    </table>
    <BR />
    <BR />
    This is an emergency reach message from
  - <b>
      <xsl_default:value-of select="from" />
    </b>
    <BR />
    <BR />
    <BR />
  - <TABLE cellpadding="0" cellspacing="0" border="0">
    - <TR>
        <TD>Message title:</TD>
      </TR>
    - <TR>
      - <TD>
        - <FONT color="red">
            <xsl_default:value-of
              select="emergencySummary" />
          </FONT>
        </TD>
      </TR>
    - <TR>
      - <TD>
          <BR />
        </TD>
      </TR>
    - <TR>
      - <TD>
          Message Text:
          <BR />
        </TD>
      </TR>
    - <TR>
      - <TD>
        - <FONT color="red">
            <xsl_default:value-of
              select="emergencyDetail" />
          </FONT>
        </TD>
      </TR>
    - <TR>
      - <TD>
          <BR />
        </TD>
```

Fig. 7B-4

```
            </TR>
          - <TR>
              <TD>Additional Contact Information:</TD>
            </TR>
          - <TR>
            - <TD>
              - <FONT color="red">
                  <xsl_default:value-of
                    select="ContactInfo" />
                </FONT>
              </TD>
            </TR>
          </TABLE>
        </FONT>
      </BODY>
    </HTML>
  </xsl_default:template>
 </xsl_default:stylesheet>
</event-xsl-endpoint>
</event-class>
- <event-class event-name="Hello" frequency="once" sensitivity="normal"
  reach="individual" content="statement" immediacy="days"
  expiration="days" context="personal">
 - <event-payload-schema>
  - <Schema name="payloadschema.xdr" xmlns="urn:schemas-
      microsoft-com:xml-data" xmlns:dt="urn:schemas-microsoft-
      com:datatypes">
    - <ElementType name="SayHello" content="eltOnly" order="seq">
        <element type="from" />
        <element type="shortHello" />
        <element type="longHello" />
      </ElementType>
      <ElementType name="from" content="textOnly" />
      <ElementType name="shortHello" content="textOnly" />
      <ElementType name="longHello" content="textOnly" />
    </Schema>
 </event-payload-schema>
 - <event-xsl-default>
  - <xsl_default:stylesheet xmlns="http://www.w3.org/TR/REC-html40"
      xmlns:xsl_default="http://www.w3.org/TR/WD-xsl">
    - <xsl_default:template match="/">
        <xsl_default:apply-templates select="SayHello" />
      </xsl_default:template>
    - <xsl_default:template match="SayHello">
        This is a 'Hello' message from
        <xsl_default:value-of select="from" />
        They wanted to say
        <xsl_default:value-of select="shortHello" />
        (More details may have be included in your folio) send a
        SmartMessage at: http://www.centerpost.com/Post/
      </xsl_default:template>
   </xsl_default:stylesheet>
 </event-xsl-default>
```

Fig. 7B-5

```
- <event-xsl-endpoint endpoint-type="html-email">
  - <xsl_default:stylesheet xmlns="http://www.w3.org/TR/REC-html40"
      xmlns:xsl_default="http://www.w3.org/TR/WD-xsl">
    - <xsl_default:template match="/">
        <xsl_default:apply-templates select="SayHello" />
      </xsl_default:template>
    - <xsl_default:template match="SayHello">
      - <HTML>
        - <BODY>
          - <FONT face="arial,helvetica">
            - <table cellpadding="0" cellspacing="0" border="0">
              - <tr>
                - <td>
                    <img
                      src="http://www.centerpost.com/images/home/cplogo_big2.g
                  </td>
                </tr>
              </table>
              <BR />
              <BR />
              This is a 'Hello' SmartMessage from
            - <b>
                <xsl_default:value-of select="from" />
              </b>
              <BR />
              <BR />
              <BR />
            - <TABLE cellpadding="0" cellspacing="0" border="0">
              - <TR>
                  <TD>They wanted to say</TD>
                </TR>
              - <TR>
                - <TD>
                  - <FONT color="red">
                      <xsl_default:value-of
                        select="longHello" />
                    </FONT>
                  </TD>
                </TR>
              - <TR>
                - <TD>
                    <BR />
                  </TD>
                </TR>
              </TABLE>
            </FONT>
          </BODY>
        </HTML>
      </xsl_default:template>
    </xsl_default:stylesheet>
  </event-xsl-endpoint>
- <event-xsl-endpoint endpoint-type="browser">
  - <xsl_default:stylesheet xmlns="http://www.w3.org/TR/REC-html40"
```

Fig. 7B-6

```
    xmlns:xsl_default="http://www.w3.org/TR/WD-xsl">
  - <xsl_default:template match="/">
      <xsl_default:apply-templates select="EmergencyReach" />
    </xsl_default:template>
  - <xsl_default:template match="EmergencyReach">
    - <HTML>
      - <BODY>
        - <FONT face="arial,helvetica">
          - <table cellpadding="0" cellspacing="0" border="0">
            - <tr>
              - <td>
                  <img
                    src="http://www.centerpost.com/images/home/cplogo_big2.g
                </td>
              </tr>
            </table>
            <BR />
            <BR />
            This is a 'Hello' SmartMessage from
          - <b>
              <xsl_default:value-of select="from" />
            </b>
            <BR />
            <BR />
            <BR />
          - <TABLE cellpadding="0" cellspacing="0" border="0">
            - <TR>
                <TD>They wanted to say</TD>
              </TR>
            - <TR>
              - <TD>
                - <FONT color="red">
                    <xsl_default:value-of
                      select="longHello" />
                  </FONT>
                </TD>
              </TR>
            - <TR>
              - <TD>
                  <BR />
                </TD>
              </TR>
            </TABLE>
          </FONT>
        </BODY>
      </HTML>
    </xsl_default:template>
  </xsl_default:stylesheet>
</event-xsl-endpoint>
</event-class>
</activity-class>
- <activity-class activity-name="Announcements" activity-duration="ongoing" event-
  frequency="monthly">
```

Fig. 7B-7

```
- <activity-xsl-default>
    <xsl_default:stylesheet xmlns="http://www.w3.org/TR/REC-html40"
      xmlns:xsl_default="http://www.w3.org/TR/WD-xsl" />
  </activity-xsl-default>
- <event-class event-name="Welcome" frequency="once" sensitivity="normal"
    reach="individual" content="statement" immediacy="days"
    expiration="days" context="personal">
  - <event-payload-schema>
    - <Schema name="payloadschema.xdr" xmlns="urn:schemas-
        microsoft-com:xml-data" xmlns:dt="urn:schemas-microsoft-
        com:datatypes">
      - <ElementType name="Welcome" content="eltOnly" order="seq">
          <element type="EndpointName" />
          <element type="Message" />
        </ElementType>
        <ElementType name="EndpointName" content="textOnly" />
        <ElementType name="Message" content="textOnly" />
      </Schema>
    </event-payload-schema>
  - <event-xsl-default>
    - <xsl_default:stylesheet xmlns="http://www.w3.org/TR/REC-html40"
        xmlns:xsl_default="http://www.w3.org/TR/WD-xsl">
      - <xsl_default:template match="/">
          <xsl_default:apply-templates select="Announcements" />
        </xsl_default:template>
        <xsl_default:template match="Announcements">Welcome To
          Centerpost! Congratulations, you've just received your first
          smart message. This test message was sent to all of your
          endpoints</xsl_default:template>
      </xsl_default:stylesheet>
    </event-xsl-default>
  - <event-xsl-endpoint endpoint-type="html-email">
    - <xsl_default:stylesheet xmlns="http://www.w3.org/TR/REC-html40"
        xmlns:xsl_default="http://www.w3.org/TR/WD-xsl">
      - <xsl_default:template match="/">
          <xsl_default:apply-templates select="Announcements" />
        </xsl_default:template>
      - <xsl_default:template match="Announcements">
        - <html>
          - <head>
              <title />
            </head>
          - <body>
            - <table cellpadding="0" cellspacing="0" border="0">
              - <tr>
                - <td>
                    <img
                      src="http://www.centerpost.com/images/home/cplogo_big2.gif
                  </td>
                </tr>
              </table>
              <br />
            - <font face="arial,helvetica" size="5" color="red">
```

Fig. 7B-8

```
            <b>Welcome to centerpost!</b>
          </font>
          <br />
          <br />
        - <font face="arial,helvetica">
            Congratulations, you've just received your first
            smart message.
            <br />
            This test message was sent to all of your
            endpoints
            <br />
            <br />
            You can start sending your own SmartMessages,
            and learn more
            <br />
            about your account at the
            <a
              href="http://www.centerpost.com/postm/pmsg1.asp">Centerpost
              web page</a>
            <br />
          </font>
        </body>
      </html>
    </xsl_default:template>
  </xsl_default:stylesheet>
</event-xsl-endpoint>
- <event-xsl-endpoint endpoint-type="browser">
  - <xsl_default:stylesheet xmlns="http://www.w3.org/TR/REC-html40"
      xmlns:xsl_default="http://www.w3.org/TR/WD-xsl">
    - <xsl_default:template match="/">
        <xsl_default:apply-templates select="Announcements" />
      </xsl_default:template>
    - <xsl_default:template match="Announcements">
      - <html>
        - <head>
            <title />
          </head>
        - <body>
          - <table cellpadding="0" cellspacing="0" border="0">
            - <tr>
              - <td>
                  <img
                    src="http://www.centerpost.com/images/home/cplogo_big2.gif'
                </td>
              </tr>
            </table>
            <br />
          - <font face="arial,helvetica" size="5" color="red">
              <b>Welcome to centerpost!</b>
            </font>
            <br />
            <br />
          - <font face="arial,helvetica">
```

Fig. 7B-9

```
                Congratulations, you've just received your first
                smart message.
                <br />
                This test message was sent to all of your
                endpoints
                <br />
                <br />
                You can start sending your own SmartMessages,
                and learn more
                <br />
                about your account at the
                <a
                  href="http://www.centerpost.com/postm/pmsg1.asp">Centerpost
                  web page</a>
                <br />
              </font>
            </body>
          </html>
        </xsl_default:template>
      </xsl_default:stylesheet>
    </event-xsl-endpoint>
  </event-class>
 </activity-class>
</smSmartMessageStylesheet>
```

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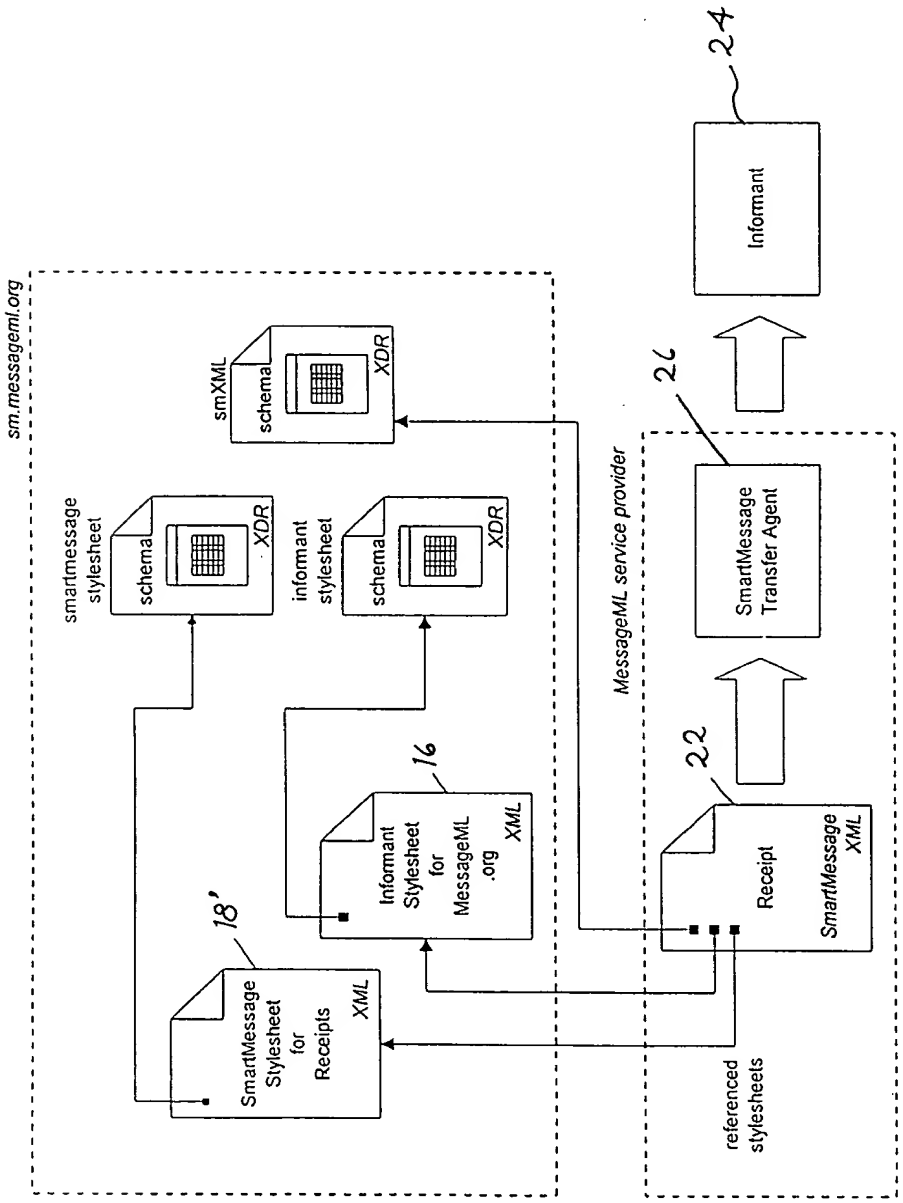
Fig. 7B-10

Fig. 8


24
Informant
26
SmartMessage Transfer Agent
MessageML service provider
22
Receipt
SmartMessage XML
referenced stylesheets
sm.messageml.org
16
Informant Stylesheet for MessageML .org XML
18'
SmartMessage Stylesheet for Receipts XML
smartmessage stylesheet
schema
XDR
informant stylesheet
schema
XDR
smXML
schema
XDR

Receipt SmartMessage Stylesheet

```
<smSmartMessageStylesheet
    xmlns="x-schema:http://sm.smartmessage.org/schemas/stylesheets/smartmessage/v1-1.xdr"
    smartmessage-stylesheet-class="http://sm.smartmessage.org/stylesheets/receipts/"
    smartmessage-stylesheet-version="v1-0.xml">

    <activity-class
        activity-name="Receipts"
        activity-duration="ongoing"
        event-frequency="once">

        <activity-xsl-default>
            <xsl_default:stylesheet xmlns="http://www.w3.org/TR/REC-html40"
                  xmlns:xsl_default="http://www.w3.org/TR/WD-xsl">
                <xsl_default:template match="/"/>
            </xsl_default:stylesheet>
        </activity-xsl-default>

        <event-class
            event-name="DeliveryStatus"
            purpose="information"
            sensitivity="normal"
            reach="individual"
            immediacy="days"
            frequency="daily"
            category="system">

            <event-payload-schema>
                <Schema name="deliverystatusreceipt.xdr"
                    xmlns="urn:schemas-microsoft-com:xml-data"
                    xmlns:dt="urn:schemas-microsoft-com:datatypes">
                    <ElementType name="receipt" content="eltOnly" order="seq">
                        <AttributeType name="receipt-event" dt:type="enumeration"
                                dt:values="delivery-status" default="delivery-status"/>
                        <AttributeType name="receipt-type" dt:type="enumeration"
                                dt:values="ack nak retry" default="nak"/>
                        <AttributeType name="receipt-date" dt:type="dateTime"
                                required="yes"/>
                        <AttributeType name="smartmessage-id" dt:type="string"
                                required="yes"/>
                        <AttributeType name="to-address" dt:type="string" required="yes"/>
                        <AttributeType name="endpoint-type" dt:type="enumeration"
                                dt:values="browser html-email text-email tiny-email fax
                                voice-phone instant-message" required="yes"/>
                        <AttributeType name="endpoint-address" dt:type="string"
                                required="yes"/>
                        <AttributeType name="last-attempt-date" dt:type="dateTime"
                                required="yes"/>
                        <AttributeType name="will-retry-attempt" dt:type="int"
                                required="yes"/>
                        <AttributeType name="will-retry-until" dt:type="dateTime"
                                required="yes"/>
                        <AttributeType name="next-retry-attempt" dt:type="dateTime"
                                required="yes"/>
                        <attribute type="receipt-event"/>
                        <attribute type="receipt-type"/>
                        <attribute type="receipt-date"/>
                        <attribute type="smartmessage-id"/>
                        <attribute type="to-address"/>
                        <attribute type="endpoint-type"/>
                        <attribute type="endpoint-address"/>
                        <attribute type="last-attempt-date"/>
                        <attribute type="will-retry-attempt"/>
                        <attribute type="will-retry-until"/>
                        <attribute type="next-retry-attempt"/>
                        <element type="error-info" minOccurs="0" maxOccurs="1"/>
                        <element type="extended-info" minOccurs="0" maxOccurs="1"/>
                    </ElementType>
                    <ElementType name="error-info" content="eltOnly" order="seq">
```

Fig. 9A

```
                    <AttributeType name="error-class" dt:type="enumeration"
                            dt:values="http https smtp smime platform-specific"
                            default="smtp" required="yes"/>
                    <AttributeType name="error-code" dt:type="string" required="yes"/>
                    <AttributeType name="error-description" dt:type="string"
                            required="yes"/>
                    <attribute type="error-class"/>
                    <attribute type="error-code"/>
                    <attribute type="error-description"/>
                </ElementType>
                <ElementType name="extended-info" content="eltOnly" order="seq"/>
            </Schema>
        </event-payload-schema>
        <event-xsl-default>
            <xsl_default:stylesheet xmlns="http://www.w3.org/TR/REC-html40"
                    xmlns:xsl_default="http://www.w3.org/TR/WD-xsl">
                <xsl_default:template match="/">
                    <xsl_default:apply-templates select="receipt"/>
                </xsl_default:template>
                <xsl_default:template match="receipt">
Receipt Item
    receipt-event:          <xsl_default:value-of select="@receipt-event"/>
    receipt-type:           <xsl_default:value-of select="@receipt-type"/>
    receipt-date:           <xsl_default:value-of select="@receipt-date"/>
    smartmessage-id:        <xsl_default:value-of select="@smartmessage-id"/>
    to-address:             <xsl_default:value-of select="@to-address"/>
    endpoint-type:          <xsl_default:value-of select="@endpoint-type"/>
    endpoint-address:       <xsl_default:value-of select="@endpoint-address"/>
    last-attempt-date:      <xsl_default:value-of select="@last-attempt-date"/>
    will-retry-attempt:     <xsl_default:value-of select="@will-retry-attempt"/>
    will-retry-until:       <xsl_default:value-of select="@will-retry-until"/>
    next-retry-attempt:     <xsl_default:value-of select="@next-retry-attempt"/>
    error-class:            <xsl_default:value-of select="error-info/@error-class"/>
    error-code:             <xsl_default:value-of select="error-info/@error-code"/>
    error-description:      <xsl_default:value-of select="error-info/@error-description"/>

    Receipt Specific Data:
        <xsl_default:value-of select="extended-info"/>
                </xsl_default:template>
            </xsl_default:stylesheet>
        </event-xsl-default>
    </event-class>

    <event-class
        event-name="Received"
        purpose="information"
        sensitivity="normal"
        reach="individual"
        immediacy="days"
        frequency="once"
        category="miscellaneous">

        <event-payload-schema>
            <Schema name="receivedreceipt.xdr"
                xmlns="urn:schemas-microsoft-com:xml-data"
                xmlns:dt="urn:schemas-microsoft-com:datatypes">
                <ElementType name="receipt" content="eltOnly" order="seq">
                    <AttributeType name="receipt-event" dt:type="enumeration"
                            dt:values="received" default="received"/>
                    <AttributeType name="receipt-type" dt:type="enumeration"
                            dt:values="ack nak" default="nak"/>
                    <AttributeType name="receipt-date" dt:type="dateTime"
                            required="yes"/>
                    <AttributeType name="smartmessage-id" dt:type="string"
                            required="yes"/>
                    <AttributeType name="to-address" dt:type="string" required="yes"/>
                    <AttributeType name="error-code" dt:type="string" required="no"/>
                    <AttributeType name="error-description" dt:type="string"
                            required="no"/>
                    <attribute type="receipt-event"/>
                    <attribute type="receipt-type"/>
```

Fig. 9B

```
                    <attribute type="receipt-date"/>
                    <attribute type="smartmessage-id"/>
                    <attribute type="to-address"/>
                    <element type="error-info" minOccurs="0" maxOccurs="1"/>
                    <element type="extended-info" minOccurs="0" maxOccurs="1"/>
                </ElementType>
                <ElementType name="error-info" content="eltOnly" order="seq">
                    <AttributeType name="error-class" dt:type="enumeration"
                            dt:values="http https smtp smime platform-specific"
                            default="smtp" required="yes"/>
                    <AttributeType name="error-code" dt:type="string" required="yes"/>
                    <AttributeType name="error-description" dt:type="string"
                            required="yes"/>
                    <attribute type="error-class"/>
                    <attribute type="error-code"/>
                    <attribute type="error-description"/>
                </ElementType>
                <ElementType name="extended-info" content="eltOnly" order="seq"/>
            </Schema>
        </event-payload-schema>
        <event-xsl-default>
            <xsl_default:stylesheet xmlns="http://www.w3.org/TR/REC-html40"
                xmlns:xsl_default="http://www.w3.org/TR/WD-xsl">
                <xsl_default:template match="/">
                    <xsl_default:apply-templates select="receipt"/>
                </xsl_default:template>
                <xsl_default:template match="receipt">
Receipt Item
    receipt-event:          <xsl_default:value-of select="@receipt-event"/>
    receipt-type:           <xsl_default:value-of select="@receipt-type"/>
    receipt-date:           <xsl_default:value-of select="@receipt-date"/>
    smartmessage-id:        <xsl_default:value-of select="@smartmessage-id"/>
    to-address:             <xsl_default:value-of select="@to-address"/>
    error-class:            <xsl_default:value-of select="error-info/@error-class"/>
    error-code:             <xsl_default:value-of select="error-info/@error-code"/>
    error-description:      <xsl_default:value-of select="error-info/@error-description"/>

    Receipt Specific Data:
        <xsl_default:value-of select="extended-info"/>
                </xsl_default:template>
            </xsl_default:stylesheet>
        </event-xsl-default>
    </event-class>

    <event-class
        event-name="Processed"
        purpose="information"
        sensitivity="normal"
        reach="individual"
        immediacy="days"
        frequency="once"
        category="miscellaneous">

        <event-payload-schema>
            <Schema name="processedreceipt.xdr"
                xmlns="urn:schemas-microsoft-com:xml-data"
                xmlns:dt="urn:schemas-microsoft-com:datatypes">
                <ElementType name="receipt" content="eltOnly" order="seq">
                    <AttributeType name="receipt-event" dt:type="enumeration"
                            dt:values="processed" default="processed"/>
                    <AttributeType name="receipt-type" dt:type="enumeration"
                            dt:values="ack nak" default="nak"/>
                    <AttributeType name="receipt-date" dt:type="dateTime"
                            required="yes"/>
                    <AttributeType name="smartmessage-id" dt:type="string"
                            required="yes"/>
                    <AttributeType name="to-address" dt:type="string" required="yes"/>
                    <AttributeType name="error-code" dt:type="string" required="no"/>
                    <AttributeType name="error-description" dt:type="string"
                            required="no"/>
                    <attribute type="receipt-event"/>
```

Fig. 9C

```
                        <attribute type="receipt-type"/>
                        <attribute type="receipt-date"/>
                        <attribute type="smartmessage-id"/>
                        <attribute type="to-address"/>
                        <element type="error-info" minOccurs="0" maxOccurs="1"/>
                        <element type="extended-info" minOccurs="0" maxOccurs="1"/>
                    </ElementType>
                    <ElementType name="error-info" content="eltOnly" order="seq">
                        <AttributeType name="error-class" dt:type="enumeration"
                                dt:values="http https smtp smime platform-specific"
                                default="smtp" required="yes"/>
                        <AttributeType name="error-code" dt:type="string" required="yes"/>
                        <AttributeType name="error-description" dt:type="string"
                                required="yes"/>
                        <attribute type="error-class"/>
                        <attribute type="error-code"/>
                        <attribute type="error-description"/>
                    </ElementType>
                    <ElementType name="extended-info" content="eltOnly" order="seq"/>
                </Schema>
            </event-payload-schema>
            <event-xsl-default>
                <xsl_default:stylesheet xmlns="http://www.w3.org/TR/REC-html40"
                    xmlns:xsl_default="http://www.w3.org/TR/WD-xsl">
                    <xsl_default:template match="/">
                        <xsl_default:apply-templates select="receipt"/>
                    </xsl_default:template>
                    <xsl_default:template match="receipt">
Receipt Item
    receipt-event:          <xsl_default:value-of select="@receipt-event"/>
    receipt-type:           <xsl_default:value-of select="@receipt-type"/>
    receipt-date:           <xsl_default:value-of select="@receipt-date"/>
    smartmessage-id:        <xsl_default:value-of select="@smartmessage-id"/>
    to-address:             <xsl_default:value-of select="@to-address"/>
    error-class:            <xsl_default:value-of select="error-info/@error-class"/>
    error-code:             <xsl_default:value-of select="error-info/@error-code"/>
    error-description:      <xsl_default:value-of select="error-info/@error-description"/>

    Receipt Specific Data:
        <xsl_default:value-of select="extended-info"/>
                    </xsl_default:template>
                </xsl_default:stylesheet>
            </event-xsl-default>
        </event-class>
    </activity-class>
</smSmartMessageStylesheet>
```

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Fig. 9D

Fig. 10A

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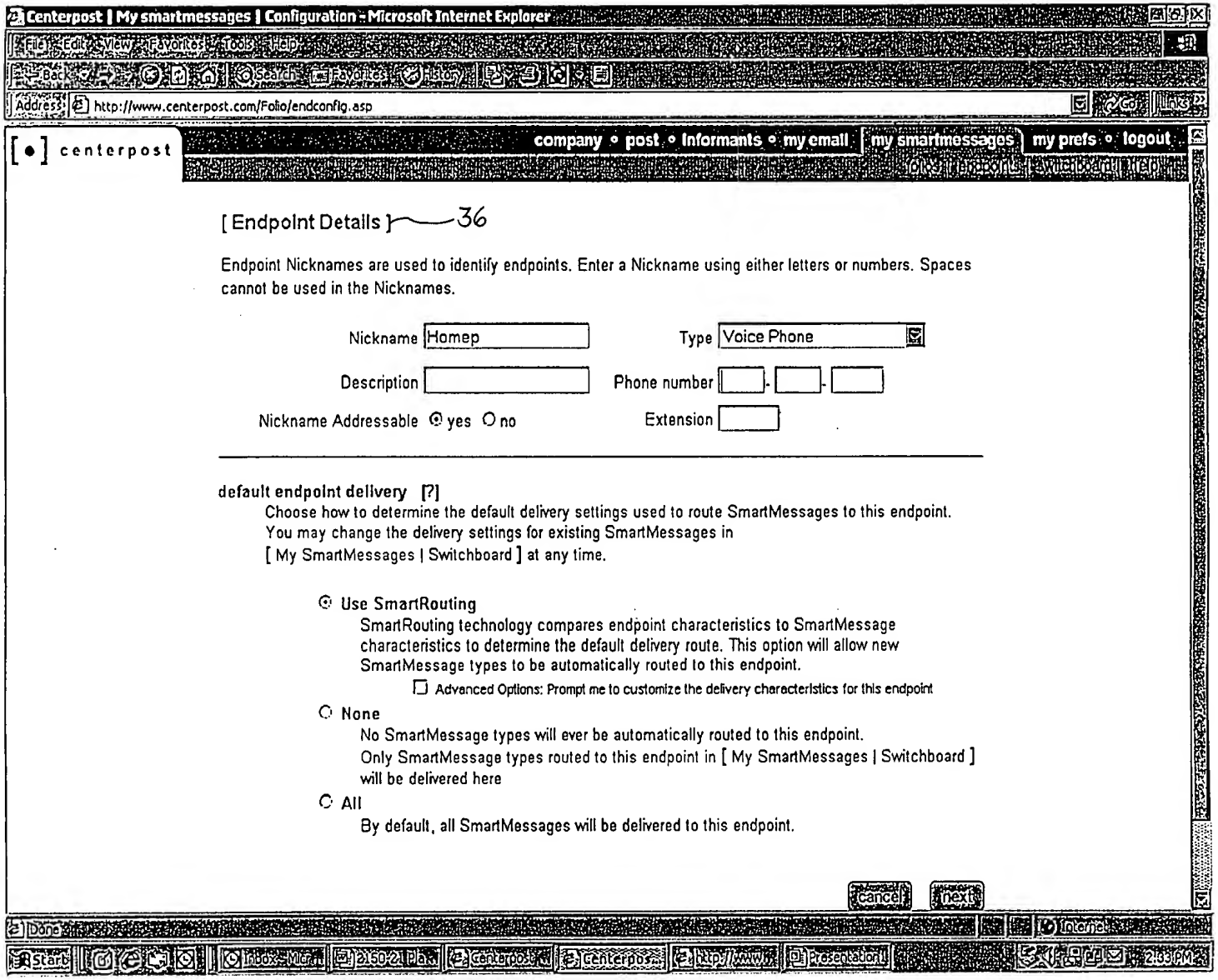

Fig. 10B

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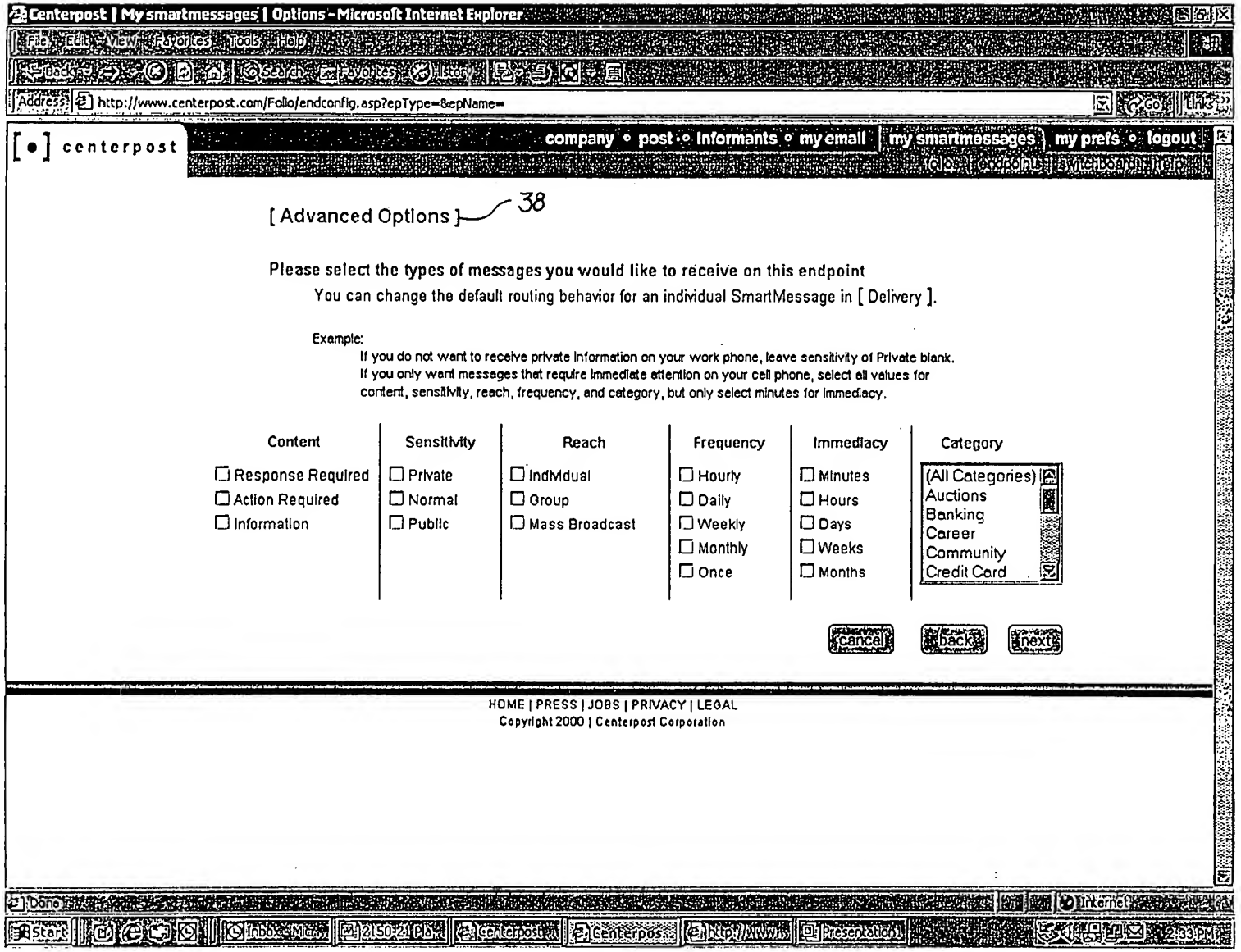

Fig. 10C

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Fig. 10D

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Fig. 10E

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Fig. 10F

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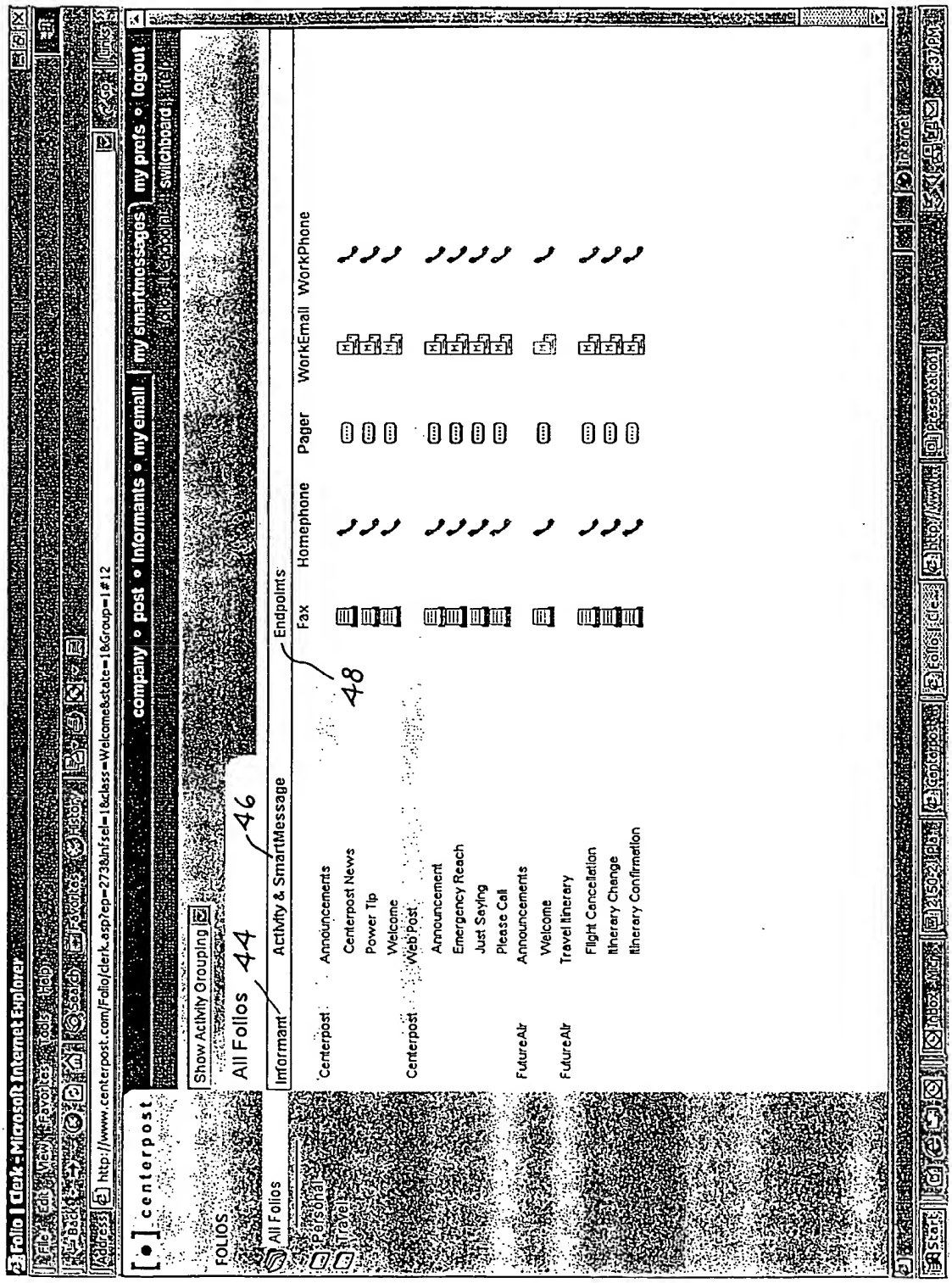

Fig. 11

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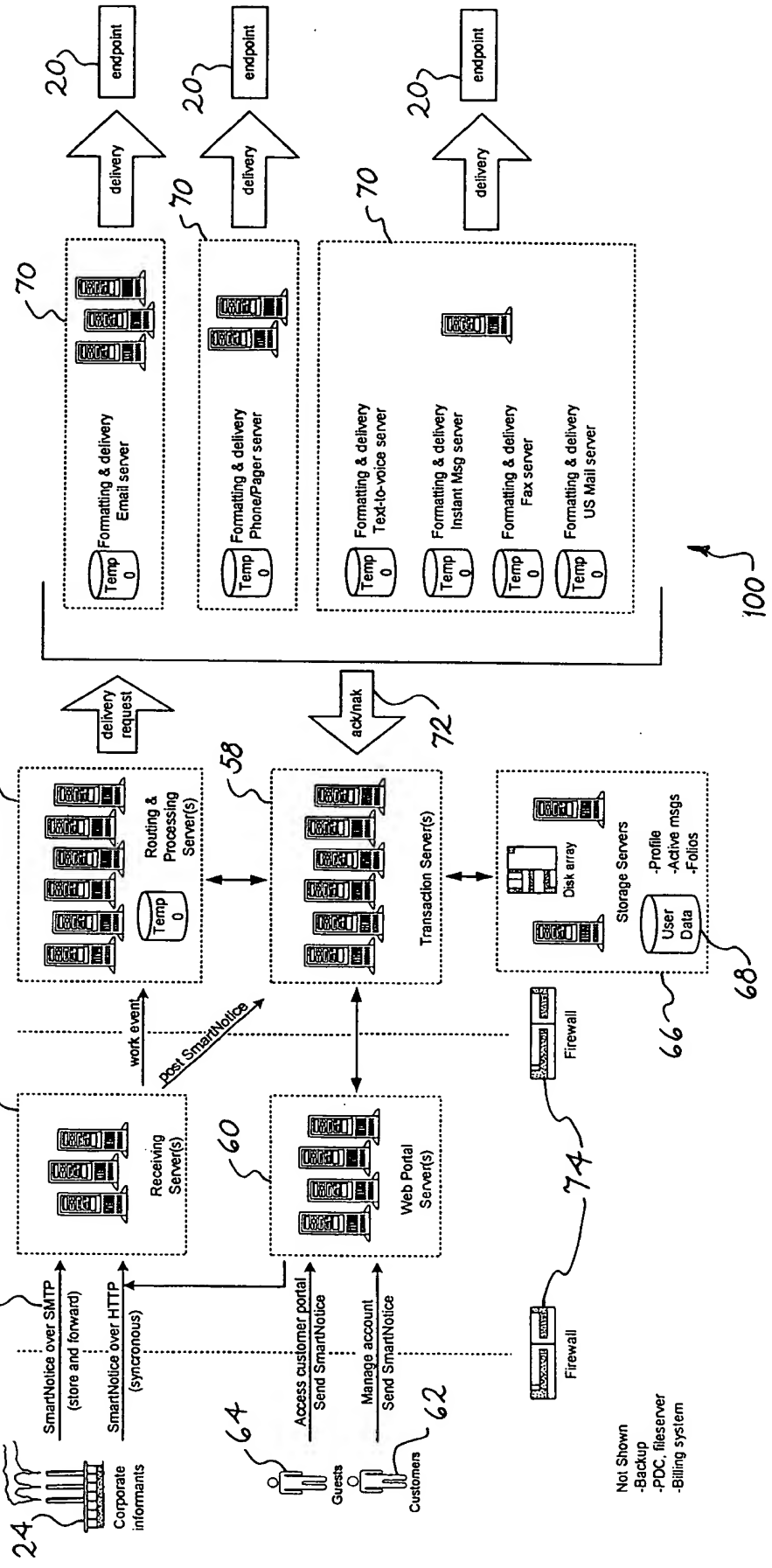
20
endpoint
delivery
70
Formatting & delivery Email server
Formatting & delivery Phone/Pager server
Formatting & delivery Text-to-voice server
Formatting & delivery Instant Msg server
Formatting & delivery Fax server
Formatting & delivery US Mail server
Temp
100
delivery request
ack/nak
72
56
Routing & Processing Server(s)
58
Transaction Server(s)
Storage Servers
Disk array
-Profile
-Active msgs
-Folios
User Data
68
66
work event
post SmartNotice
54
Receiving Server(s)
60
Web Portal Server(s)
Firewall
74
50
SmartNotice over SMTP
(store and forward)
SmartNotice over HTTP
(syncronous)
Access customer portal
Send SmartNotice
Manage account
Send SmartNotice
64
62
24
Corporate informants
Guests
Customers
Not Shown
-Backup
-PDC, fileserver
-Billing system

Fig 12

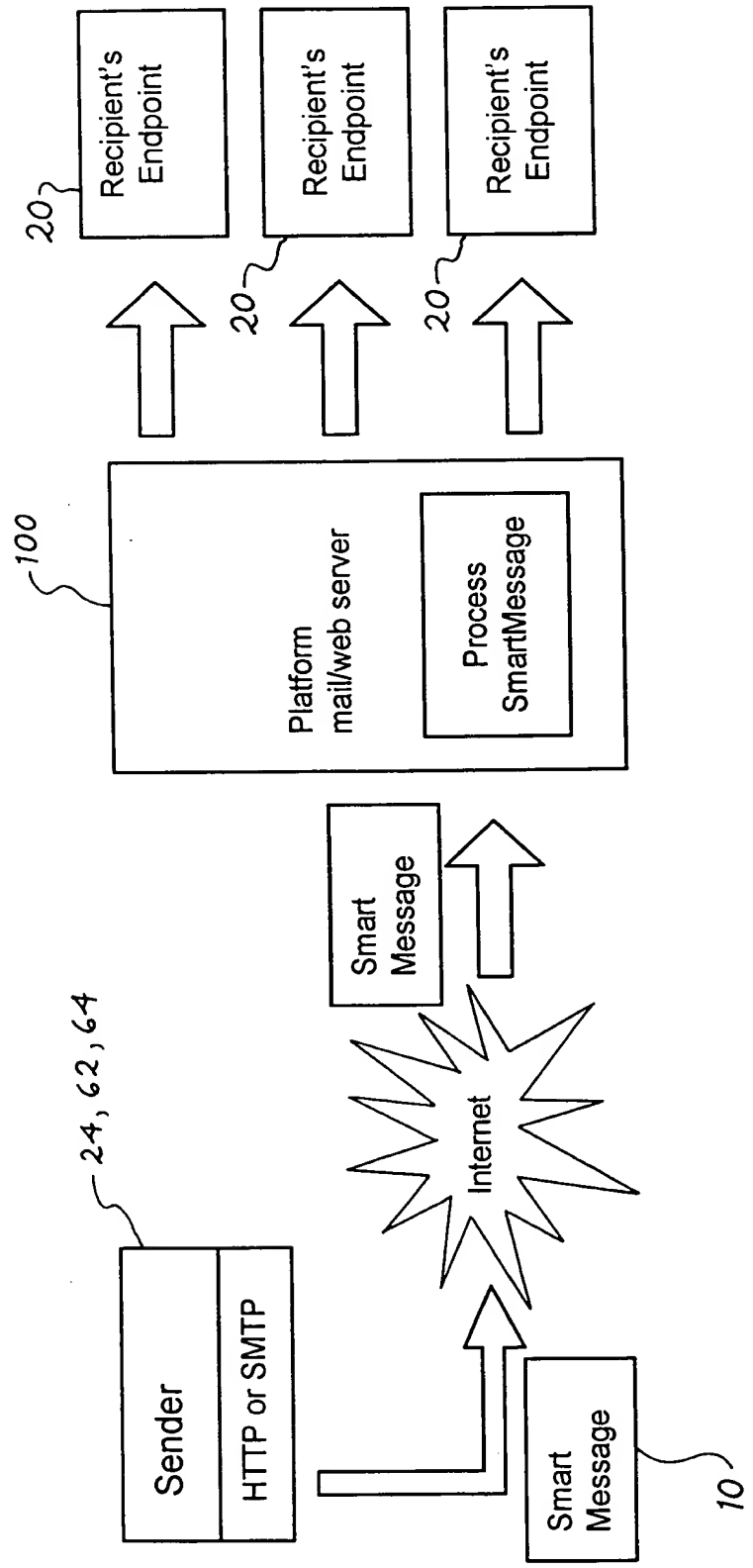
Recipient's Endpoint
Recipient's Endpoint
Recipient's Endpoint
20
20
20
100
Platform mail/web server
Process SmartMessage
Smart Message
Internet
24, 62, 64
Sender
HTTP or SMTP
Smart Message
10

Fig. 13

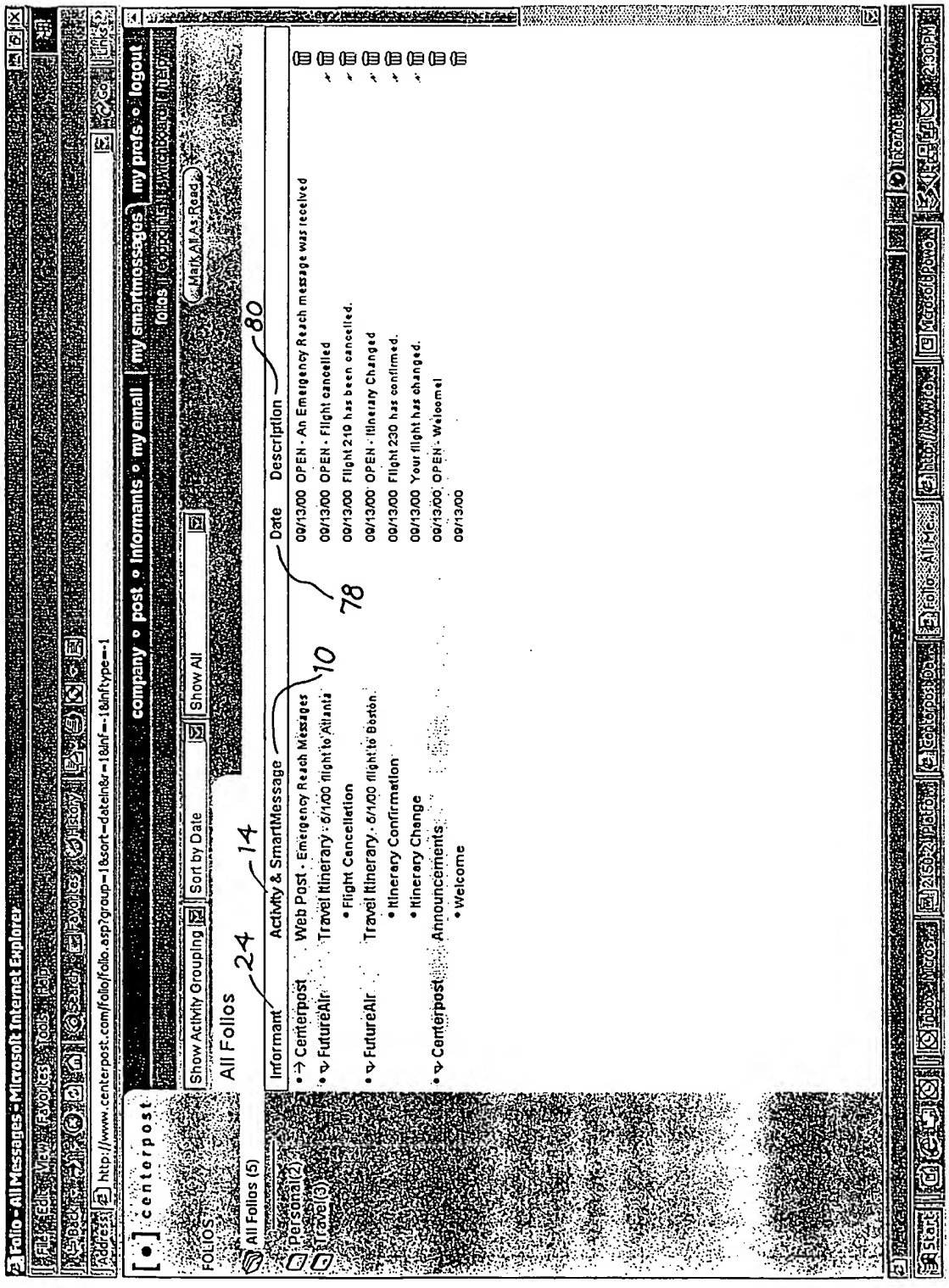

Fig. 14

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Fig. 15A

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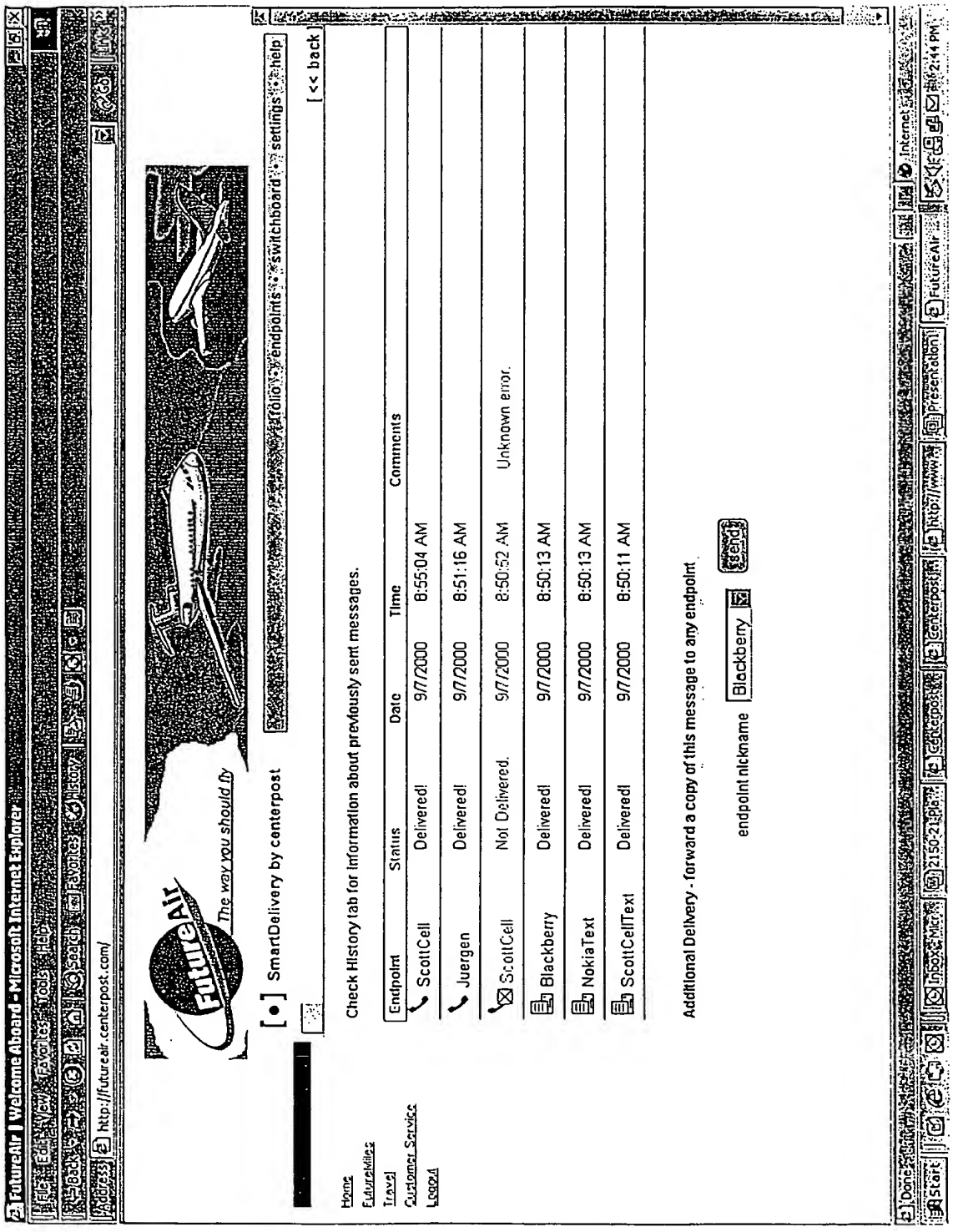

Fig. 15B

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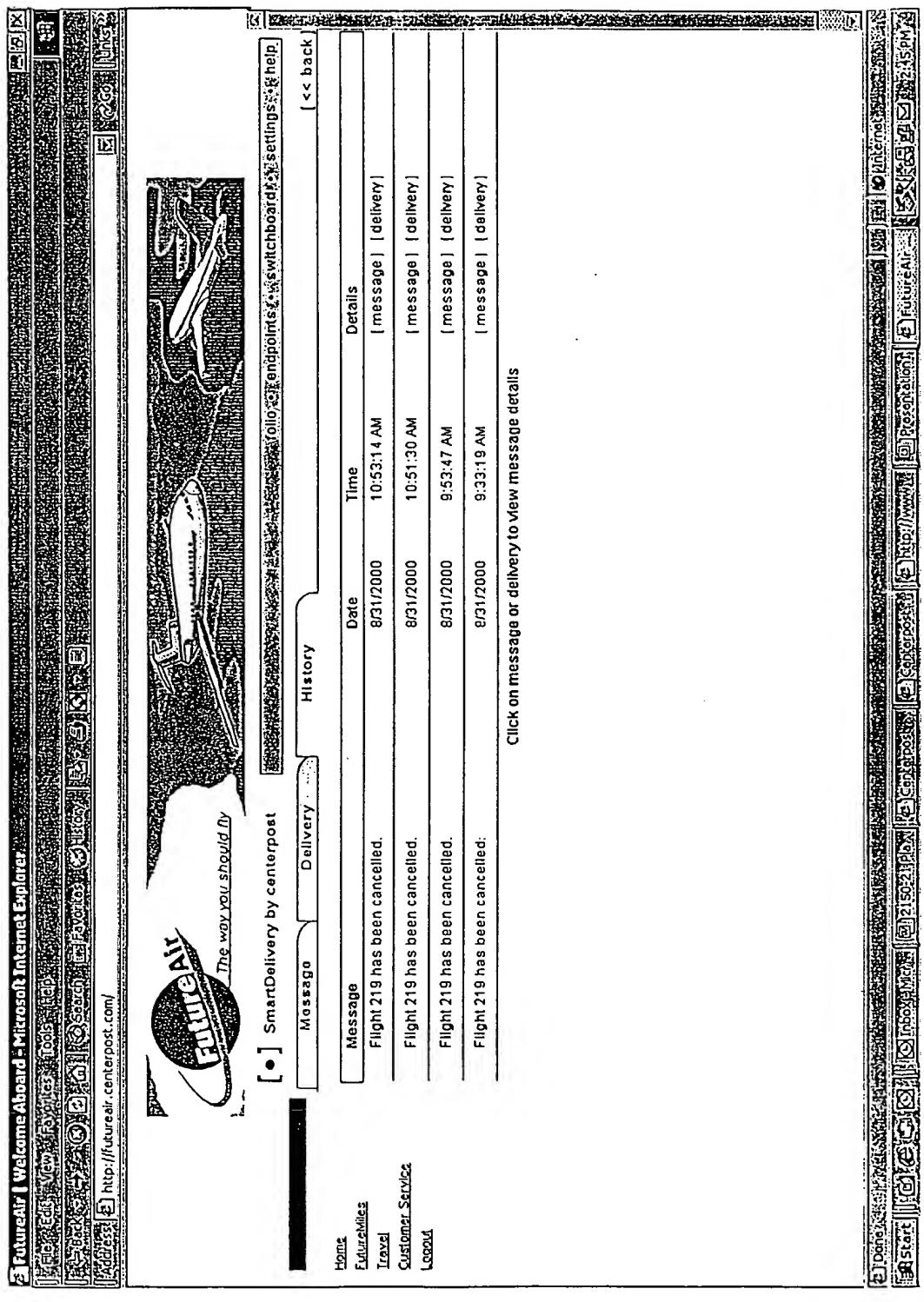

Fig. 15C

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